

What is claimed is:

1. A radio receiver unit comprising:
 - receiving means for receiving RF (radio frequency) signals;
 - a filter arranged in a stage succeeding said receiving means and is capable of being turned on or off;
 - estimating means for estimating the magnitude of electric power of interference waves contained in said RF signals and for producing an estimated value corresponding to the magnitude of said electric power; and
 - control means for turning said filter off during a period in which said estimated value is smaller than a threshold value.
2. A radio receiver unit comprising:
 - receiving means for receiving RF signals;
 - a filter arranged in a stage succeeding said receiving means and is capable of being turned on or off;
 - demodulating means for demodulating first received signals before passing through said filter or for demodulating second received signals after having passed through said filter;
 - estimating means for estimating the magnitude of electric power of interference waves contained in said RF signals and for producing an estimated value corresponding to said magnitude; and
 - control means for so controlling said filter as to be turned off during a period in which said estimated value is

smaller than a threshold value.

3. A radio receiver unit according to claim 1 or 2, wherein said estimating means effects the estimation by comparing and judging the power values of said first received signals and of said second received signals.

4. A radio receiver unit according to any one of claims 1 to 3, wherein said estimating means effects the estimation periodically.

5. A radio receiver unit according to any one of claims 1 to 4, wherein said estimating means effects the estimation during a period in which said receiving means is receiving RF signals without containing said desired waves.

6. A radio receiver unit according to claim 1 or 2, wherein said control means turns said filter off when a period in which said estimated value is smaller than the threshold value continues for a predetermined period of time.

7. A radio receiver unit according to claim 1 or 2, wherein said receiving means has a function for receiving said RF signals corresponding to a receiving channel selected out of a plurality of channels, and said estimating means effects the estimation upon temporarily receiving RF signals corresponding to a second channel in a frequency band neighboring a first channel in which said desired waves exist among said plurality of channels.

8. A radio receiver unit according to claim 7, wherein

said radio receiver unit is a wireless terminal used in a wireless LAN system that includes a base station and the wireless terminal for effecting the communication with said base station, and said estimating means effects the estimation prior to starting the communication or when the communication quality is deteriorated.

9. A radio receiver unit capable of changing the operation mode over to a normal power consumption mode or to a low power consumption mode in which the consumption of electric power is small during the operation, comprising:

receiving means for receiving RF signals that contain desired waves;

a filter arranged in a stage succeeding said receiving means and is capable of being turned on or off; and

control means for turning said filter off during said low power consumption mode.

10. A radio receiver unit capable of changing the operation mode over to a normal power consumption mode or to a low power consumption mode in which the consumption of electric power is small during the operation, comprising:

receiving means for receiving RF signals;

a filter arranged in a stage succeeding said receiving means;

demodulating means for demodulating first received signals of before passing through said filter or for demodulating

second received signals after having passed through said filter;
and

control means for so controlling said filter as to be turned off during said low power consumption mode.

11. A radio receiver unit according to any one of claims 1 to 7, 9 and 10, wherein said radio receiver unit is a wireless terminal used in a wireless LAN system that includes a base station and the wireless terminal for effecting the communication with said base station.